

Fig. 1



* -: + 14 **\ 15** Compressed ~ 24 Processor **Data Queue** 20 CODEC **23** 21 UnCompressed 22 Memory **Data Queue**

Fig. 2

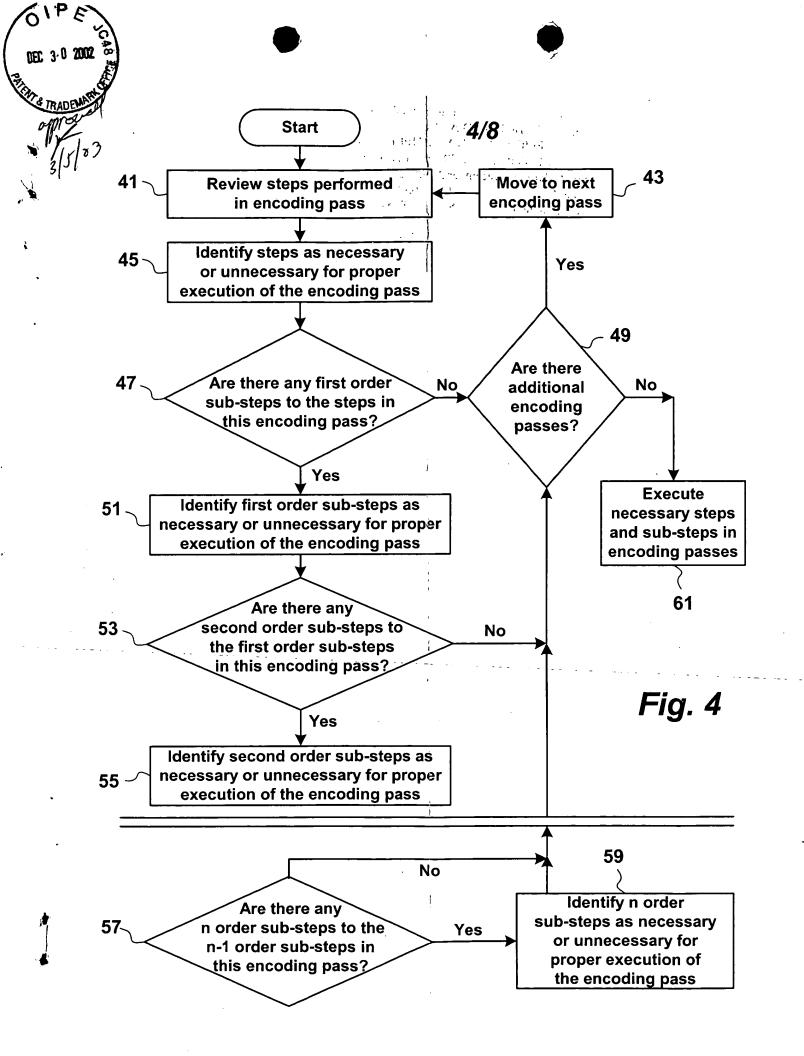


STEPS-	Wavelet Decomp.	Motion Estimation	Difference Image Encoding	Difference Image Decoding	Motion Compensa- tion	Wavelet Recomp
Initial-trial encoding pass	×	×	×	?		•
Retrial encoding pass			?	?		
Final encoding pass			?	×	×	×

First Order Sub- Steps	Calculate Average Activity	Determine Adaptive Quant. Level	Forward Block Transform	Block Quanti- zation	l lanath	Generate Bit Stream	Block De- quantization	Inverse Trans- form
Initial- trial encoding pass	×	×	×	×	×	×	DC Coeff. Only	
Retrial encoding pass	· -	×		×	×	×	DC Coeff. Only	
Final encoding pass				-	~	?	×	×

Second Order Sub-Steps	Generate GOP, Picture, and Band Header	Generate Tile and Below Bit Stream		
Initial-trial encoding pass	×	×		
Retrial encoding pass	×	×		
Final encoding pass	×			

Fig. 3





Perform initial trial pass with initial **∽101** quantization parameter q(0) 103 - 109 Exit criteria Perform final Yes encoding pass satisfied No Adjust quantization 105 parameter q(i+1) based upon q(i) and the data rate Perform retrial encoding pass 107 with quantization parameter q(i+1)

Fig. 5



6/8

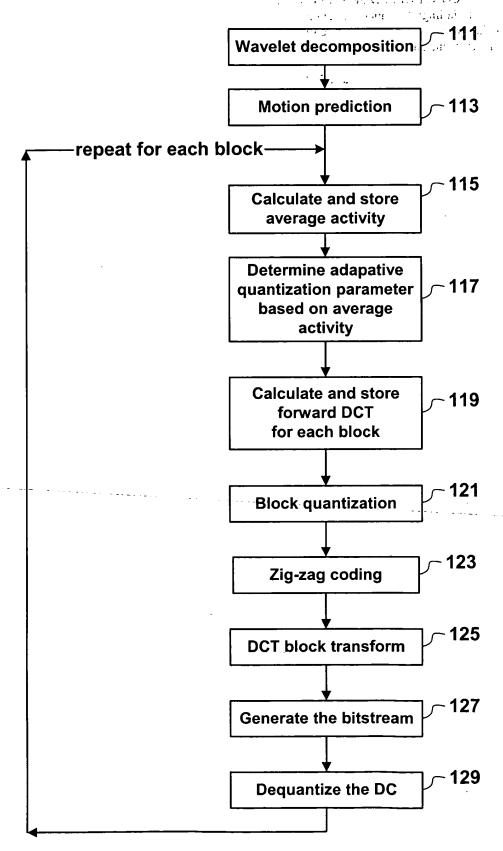


Fig. 6a



7/

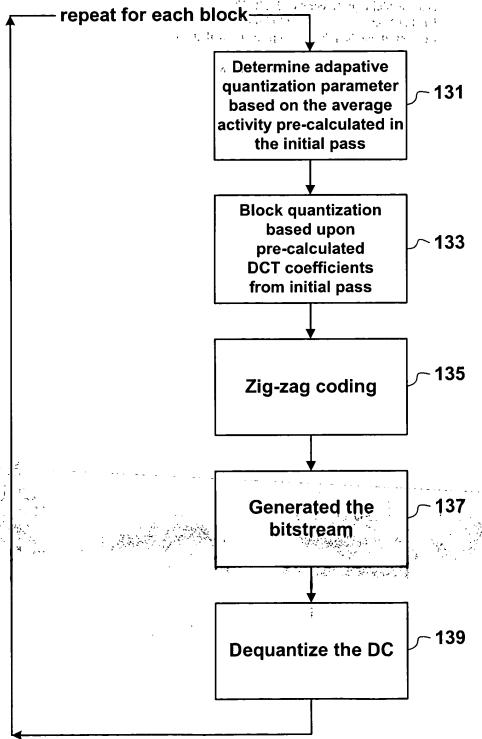


Fig. 6b



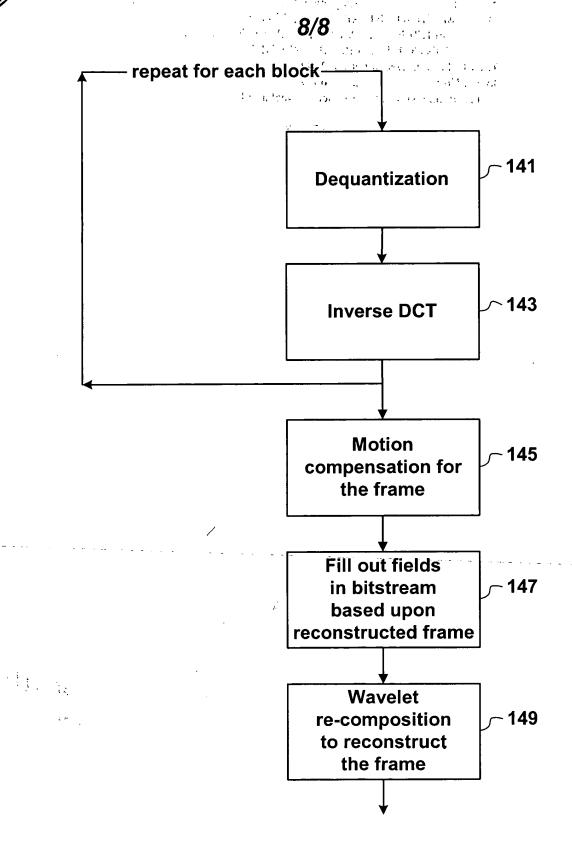


Fig. 6c